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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,669	08/07/2003	Lewis K. Cirne	P1954C-944	8894
21839 7590 06/16/2010 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			EXAMINER LIN, WEN TAI	
			ART UNIT 2454	PAPER NUMBER
			NOTIFICATION DATE 06/16/2010	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/635,669	Applicant(s) CIRNE ET AL.	
	Examiner Wen-Tai Lin	Art Unit 2454	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 June 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13-23, 25-27, 29-31, 33-38, 40-41, 43, 45-48, 50-53, 55-56, 58 and 60-65 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Continuation of Disposition of Claims: Claims pending in the application are 1-11,13-23,25-27,29-31,33-38,40,41,43,45-48,50-53,55,56,58 and 60-65.

DETAILED ACTION

1. Claims 1-11, 13-23, 25-27, 29-31, 33-38, 40-41, 43, 45-48, 50-53, 55-56, 58 and 60-65 are presented for examination.
2. Claims 2-11, 14-23, 26-27, 30-31, 34-35, 37-38, 40, 46-48, 51-52 are objected to because it is unclear whether the claimed subject matter in these dependent claims are the same of that of their parent claims or not. This is due to the fact that all the claim languages start with indefinite terms “A” or “An”. To avoid confusion as such, Applicant is recommended to replace “A” or “An” with “The” so as to indicate that the further claimed features are added to the features inherited from the respective parent claims.
3. The text of those sections of Title 35, USC code not included in this action can be found in the prior Office Action.

Claim Rejections – 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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4. Claims 1-11, 29-31, 36-38, 40-41, 45-48, 55-56, 58 and 60-61 are rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. While the claims recite a series of steps or acts to be performed, a statutory “process” under 35 U.S.C. 101 must (1) be tied to particular machine, or (2) transform underlying subject matter (such as an article or material) to a different state or thing. See page 10 of *In Re Bilski* 88 USPQ2d 1385. The instant claims are neither positively tied to a particular machine that accomplishes the claimed method steps nor transform underlying subject matter, and therefore do not qualify as a statutory process. The method steps is broad enough that the claim could be completely performed mentally, verbally or without a machine nor is any transformation apparent. To overcome the 101 rejection, Applicant is recommended to replace the word “comprising” in the preamble of claim 1 with “comprising the following computer-implemented steps”.

Claim Rejections - 35 USC § 102

5. Claims 1-11, 13-23, 25-27, 29-31, 33-38, 40-41, 43, 45-48, 50-53, 55-56, 58 and 60-65 are rejected under 35 U.S.C. 102(e) as being anticipated by Hao et al. [U.S. Pat. No. 5844553].

6. As to claim 1, Hao discloses a method for routing an event to a human interface object in a computer system [e.g., Abstract; col. 4, lines 16-32 and 48-56], said method comprising:

assigning a routing type to an event [e.g., Figs. 3A-3C, wherein the routing types of Fig. 3B can be categorized as broadcast type (i.e., multicast events), focus type (keyboard events), and (geometrical type (button press/release and mouse click events); note that each of these event types are inherently associated with a code for distinguishing among themselves];

receiving an event specifying an assigned routing type [e.g., Fig. 3C; col.7, line 53 – col. 8, line 10];

determining a routing mechanism of the received event based on the specified routing type [e.g., Fig. 6; col. 6, line 51 – col. 7, line 4; col. 9, lines 23-45]; and

routing the event to a human interface object based on the determined routing mechanism for the event [e.g., col. 8, lines 4-10].

7. As to claim 2, Hao discloses a method as defined in claim 1 wherein said routing type is a member of a set including a first routing type that is routed based on geometric coordinates of an event and a second routing type that is routed based on an input focus [note that focus type and geometrical type are inherent attribute of keyboard events and mouse click/moving events, respectively].

8. As to claim 3, Hao discloses a method as defined in claim 2 wherein the set further includes a third routing type that is broadcast to a plurality of interface objects [note that a multicast event is equivalent a broadcast event when the event is mapping to all active applications in Hao's system].

9. As to claims 4-5, Hao discloses a method as defined in claim 1 wherein the routing type is one of an extensible plurality of routing types, wherein routing types can be added to said plurality [e.g., Figs. 3A and 6; col. 9, lines 23-45; i.e., different types of routings such as sharing events with any specified number of applications can be configured by constructing the shared window data array differently].

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10. As to claims 6-7, Hao discloses a method as defined in claim 1 wherein one or more clients can register interest in an event such that when the event is received, the event is sent to each client which registered interest [e.g., col. 7, lines 45-52; Fig. 4; i.e., a user may choose to share or unshared the events by moving the pointer (mouse) into or away shared windows].

11. As to claims 8-9, Hao discloses a method as defined in claim 6 wherein an indication as to interest is maintained for each event and is updated when a client registers and unregisters interest in the event [e.g., col. 6, lines 17-35; note that the window numbers “n” is dynamically changed for events coming out of each private window. Therefore “n” is an indicator representing the number of applications the event is being shared].

12. As to claims 10-11, Hao discloses a method as defined in claim 8 wherein said indication as to interest is maintained by adding an event to a handler table [e.g., col. 6, lines 36-50; note that the Inter-Access Resource Table is equivalent to the handler table here, which contains the structure of the shared window data array].

13. As to claims 60-61, Hao further teaches that wherein said human interface object comprises an element of a graphical user interface that is displayed on a display device, wherein said human interface object comprises one of a window, panel, editable text, push button, list box and radio button [e.g., Fig. 3A; col. 7, lines 12-29; col. 8, lines 4-10].

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14. As to claims 13-23, 25-27, 29-31, 33-38, 40-41, 43, 45-48, 50-53, 55-56, 58 and 62-65, since the features of these claims can also be found in claims 1-11 and 60-61, they are rejected for the same reasons set forth in the rejection of claims 1-11 and 60-61 above.

15. Applicant's arguments filed on 06/02/10 for claims 1-11, 13-23, 25-27, 29-31, 33-38, 40-41, 43, 45-48, 50-53, 55-56, 58 and 60-65 have been fully considered but they are not deemed to be persuasive.

Specifically, Applicant argues that (i) Hao does not teach the features of assigning a routing type to an event and determining a routing mechanism for the received event based on the specified routing type; and (ii) Hoa's determination of how a multicast event is shared between applications is not based on a specified routing type.

16. The examiner respectfully disagrees with applicant's remarks

Applicant is reminded that Hao uses Fig. 3C to show a critical portion of the teachings that are relevant to Applicant's claimed features, which is illustrated in Applicant's Fig. 11. In Applicant's Fig. 11, three different event types are shown to be distributed to its respective application window based on the so called routing type. The determined routing mechanism for the geometric type is mapped to 1104, 1106, 1108 and 1110. Likewise, the other two routing types are mapped to (1122, 1124, 1126) and (1132, 2234, and 1136), respectively. It is noted that event packets/messages originating from different sources inherently contain certain codes that allow a subsequent process to distinguish one type of event from the others. Thus the event-type-distinguishable codes are inherently assigned at the sources of the events.

In a similar fashion, Hao's Fig. 3C shows how an event handler distributes three different types of event to their corresponding applications. One difference to Applicant's Fig. 11 is that Hao's Fig. 3C only illustrates the portion of "shared" events [col. 7, line 66 – col. 8, line 3]. However, due to the fact that Hao uses two buttons [i.e., share 208 and unshared 210 buttons of Fig. 3A] to determine whether events would be shared with certain selected windows, there should be a counterpart to Fig. 3C which illustrates the scenario of unshared events originating from the same mouse and keyboard input devices. For example, corresponding to the "shared button press/release events", "shared keyboard events" and "shared motion events" of Fig. 3C (when the share button is clicked), there should be a set of "unshared button press/release events", "unshared keyboard events" and "unshared motion events" (when the unshared button is clicked) in Hao's system. All these six events are distinguishable by the combination of inherent codes associated with input devices and the states of the share/unshared buttons. The three events, which are characterized as "shared events" type (as illustrated in Fig. 3C) may also be called broadcast (or multicast) type of event, while the "unshared button press/release events" and "unshared keyboard events" types are mapped to the "geometric event" and "focus event" types in Applicant's Fig. 11, respectively. Accordingly, each of these event types has a corresponding "routing mechanism", as illustrated in Hao's Fig. 3C.

For at least the above reasons, it is submitted that the prior art or record reads on the claims.

17. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

18. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Examiner note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the contest of the passage as taught by the prior art or disclosed by the Examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen-Tai Lin whose telephone number is (571)272-3969. The examiner can normally be reached on Monday-Friday(8:00-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(571) 273-8300 for official communications; and

(571) 273-3969 for status inquires draft communication.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wen-Tai Lin

June 11, 2010

/Wen-Tai Lin/

Primary Examiner, Art Unit 2454